Windows 2003

HP StorageWorks MSA Hardware Providers quick start guide

MSA1000

product version: 2.7

first edition (February 2005)

part number: T1634-96071

This guide provides a summary of how to install and administer HP HWP for use with HP MSA disk arrays and Windows Server 2003.

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Quick start procedures

This guide summarizes hardware and software configuration and installation for the HP StorageWorks MSA Hardware Providers (HWP) for Windows 2003. For detailed configuration and installation procedures as well as a technical overview and troubleshooting information, refer to the *HP StorageWorks MSA Hardware Providers Administration Guide for Windows 2003*.

IMPORTANT NOTE: The right combination of software versions is crucial to configuring a working system. Refer to the *HP StorageWorks Hardware Providers Supported Configurations* document and any README files accompanying the HP HWP installation files for information about compatible software versions and system configurations.

For HP Hardware Providers documentation and software downloads, see the following web location:

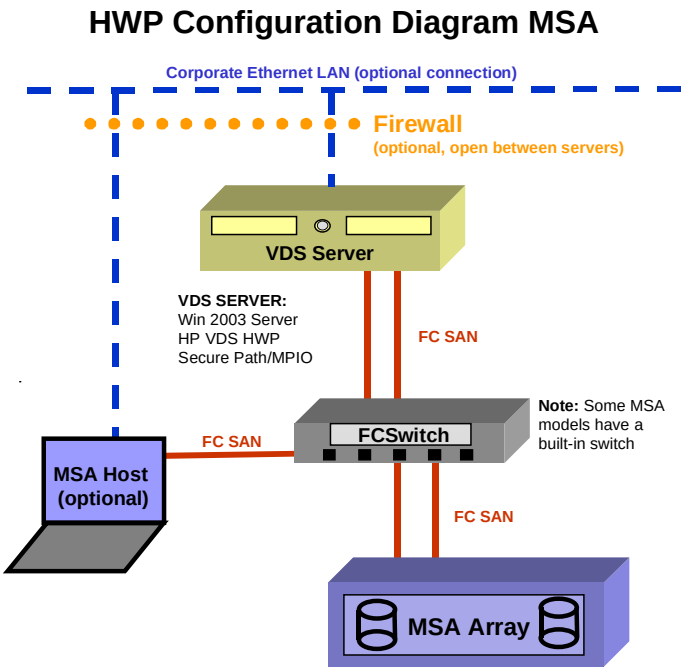
www.hp.com/support/vssvdshwp

Required components

The following hardware and software components are required in order to use HP VDS HWP with an HP MSA disk array.

Required hardware components

- **HP StorageWorks MSA Disk Array** (MSA Host recommended but not required for VDS HWP)
- **Windows 2003 Server:** This server will contain the Microsoft VDS Service and HP VDS Hardware Provider.
- **Fibre Channel Host bus adapter (HBA):** To install in the VDS HWP server to provide FC connection to the MSA array.
- **Fibre Channel switch and cabling:** For connecting the VDS HWP server to the array via fabric SAN. Some arrays have a built-in switch.



Required software components

IMPORTANT NOTE: The right combination of software versions is crucial to configuring a working system.

The following software is required to run HP VDS HWP.

HP StorageWorks MSA disk array (host server optional for HWP)**:**

- Fully configured array
- HP Secure Path or MPIO multipath license

Windows VDS HWP server:

- Windows 2003 Server
- HP VDS HWP
- HP Secure Path or MPIO multipath software
- Microsoft QFEs (quick fixes), if required for your OS or VDS, are listed in the HP HWP README file. Search the Microsoft website for "quick fixes" and download them.

Configuration procedures

Physically install and configure the disk array and the server as described below and in the manuals for those products. Refer to the diagram on page 4 for an overview of interconnections.

VDS HWP Windows 2003 server:

- Install Windows 2003 Server OS.
- Install FC Host Bus Adapter and driver and connect to the array.
- Install NIC card and connect to Ethernet LAN (optional).
- Install HP Secure Path or MPIO multipath software.

Disk array and host:

- Connect the array to the VDS Server through the FC switch.
- Verify existing or install Secure Path or MPIO license.

Important configuration note:

Administrator privileges are required for all devices and software. If you do not have administrator privileges, the software and hardware will not communicate properly.

Installation summary

Perform the following tasks to install the HWP software on the VDS server:

- Run the HP HWP installation executable:
  hp StorageWorks VDS hardware provider for MSA.msi
- Follow the InstallShield Wizard instructions to install the HWPs:

  Agree to the license.

  Select a destination folder for the files and install them.

  Click **Finish** when installation is done.
- Verify installation by checking for HP HWP in Windows **Control Panel** > **Add/Remove Programs**. Also run DiskRaid and use the "list provider" and "list subystem" commands to verify operation.

Install Microsoft QFEs:

Microsoft may have QFEs (quick fixing engineering patches) that you need to install to update the OS, VDS, or VSS software. See the HP HWP README file for details, and search the Microsoft website. In some cases, these QFEs may be required in order for HP HWPs to work.

Uninstall Hardware Providers:

If you need to uninstall HWP, you can use either of two methods:

- Use Windows **Control Panel** > **Add/Remove Programs**.
- Run the HWP executable again. If HWP is already installed, the wizard offers to uninstall it.